Attorney Docket No.: 08215-549001 Client Ref. No.: P06-026886

## WHAT IS CLAIMED IS:

- 1. A position indicator, comprising:
- a position indicator display and mechanism;
- a polymer housing to house the position indicator display and mechanism; and
- a one-piece clear polymer cover enclosing the position indicator display and
- mechanism in the polymer housing.
  - 2. The position indicator of claim 1 further comprising:
- 10 a hinge; and

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- a hand-operated latch that secures the one-piece clear polymer cover to the polymer housing such that the one-piece clear polymer cover can be opened without the use of tools.
- 3. The position indicator of claim 2 wherein the hinge includes a first portion that is integrated with the polymer housing and a second portion that is integrated with the one-piece clear polymer cover.
  - 4. A position indicator, comprising:
  - an input shaft having an angular velocity;
  - a pointer to indicate a position of a tap changer and having an angular velocity; and
  - a drive mechanism connected to the input shaft and the pointer, wherein the drive

mechanism is non-linear such that the angular velocity of the input shaft is not directly

- related to the angular velocity of the pointer.
- 5. The position indicator of claim 4 wherein the drive mechanism includes a Geneva-type mechanism.
  - 6. The position indicator of claim 4 wherein a resulting motion of the pointer includes a dwell.

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7. The position indicator of claim 4 wherein the drive mechanism includes an interchangeable output drive component to change rotation of the pointer relative to rotation of the input shaft.

- 8. The position indicator of claim 4 wherein the drive mechanism includes an output drive component and the pointer is integrated with the output drive component.
- 9. The position indicator of claim 4 wherein the drive mechanism includes an output drive component and the position indicator further comprises a maximum position pointer actuator that is integrated with the output drive component.
- 10. The position indicator of claim 4 wherein the drive mechanism includes an output drive component and the position indicator further comprises a limit switch triggering cam that is integrated with the output drive component.
  - 11. A position indicator, comprising:
  - a main position indicating assembly; and
- a modular maximum position indicating subassembly that is secured to the main position indicating assembly with a hand-operable fastener.
- 12. The position indicator of claim 11 wherein the hand-operable fastener includes a thumbscrew.
- 13. The position indicator of claim 11 wherein the modular maximum position indicating subassembly includes a polymer base.
  - 14. The position indicator of claim 11 further comprising a drive mechanism having a concentric circular gap, wherein the modular maximum position indicating subassembly fits inside the concentric circular gap in the drive mechanism.

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15. The position indicator of claim 11 wherein the modular maximum position indicating subassembly is configured to be secured to the main position indicating assembly without tools.

- 16. The position indicator of claim 11 wherein the modular maximum position indicating subassembly includes a solenoid that is capable of receiving a quick connecting electrical connector.
  - 17. A position indicator, comprising:
- 10 a housing;
  - a limit switch; and
  - a one-piece limit switch adjuster that holds the limit switch and further includes integrated functionality to constrain the one-piece limit switch adjuster in the housing without fasteners.

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- 18. The position indicator of claim 17 wherein the one-piece limit switch adjuster includes a molded polymer part.
- 19. The position indicator of claim 17 further comprising a retaining ring, and wherein the one-piece limit switch adjuster includes an integrated tab that mates with a notch on the retaining ring to hold the one-piece limit switch adjuster in place in the housing.
- 20. The position indicator of claim 17 wherein the housing includes a channel and the one-piece limit switch adjuster slides in the channel in the housing.

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- 21. The position indicator of claim 20 wherein the one-piece limit switch adjuster slides in the channel in the housing without a bearing or a hinge.
- 22. The position indicator of claim 17 wherein the one-piece limit switch adjuster includes a rocker-type snap switch.